

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A method, comprising:

in a first cell, receiving from a base station corresponding to the first cell, a broadcast administrative message communicating multicast information for a plurality of cells comprising the first cell of a first access type, a neighboring horizontal cell of the first access type, and a vertical cell of a second access type, wherein said multicast information includes session information including a multicast IP address for a multicast session, mapping information indicating in which cells the multicast session may be received, topology information mapping logical cells to physical cells, and link-level access parameters usable to connect to the multicast session;

tuning to the multicast session in the first cell using the received multicast information; and

when a predetermined condition occurs, tuning to the multicast session in one of the horizontal neighboring cell and the vertical cell using the received multicast information.

2. (Previously Presented) The method of claim 1, wherein the multicast information comprises a session identifier.

3. (Previously Presented) The method of claim 1, wherein the multicast information comprises a frequency.

4. (Previously Presented) The method of claim 1, wherein the multicast information comprises a session title.

5. (Original) The method of claim 1, wherein the predetermined condition comprises a signal strength fading.

6. (Original) The method of claim 1, wherein the predetermined condition comprises receiving predetermined user input.

7. (Previously Presented) The method of claim 1, wherein each tuning comprises receiving a digital video broadcast terrestrial (DVB-T) multicast session.

8. (Previously Presented) The method of claim 1, wherein each tuning comprises receiving a UMTS multicast session.

9. (Previously Presented) A method, comprising:

in a first cell, receiving from a base station corresponding to the first cell, multicast information for a plurality of cells comprising the first cell of a first access type, a neighboring horizontal cell of the first access type, and a vertical cell of a second access type, wherein said multicast information includes session information including a multicast IP address for a multicast session, mapping information indicating in which cells the multicast session may be received, topology information mapping logical cells to physical cells, and link-level access parameters usable to connect to the multicast session;

tuning to the multicast session in the first cell using the received multicast information; and

when a predetermined condition occurs, tuning to the multicast session in one of the horizontal neighboring cell and the vertical cell using the received multicast session information, wherein each tuning comprises using the link-level access parameters to tune to the multicast session in each cell.

10. (Original) The method of claim 1, further comprising the step of joining an IP multicast group in the first cell.

11. (Previously Presented) The method of claim 1, further comprising the step of periodically receiving multicast session announcements including the multicast information while tuned to the multicast session in the first cell.

12. (Previously Presented) An apparatus, comprising:
a processor; and
memory for storing computer readable instructions that, when executed by the processor, cause the apparatus to perform:

in a first cell, receiving from a base station corresponding to the first cell, a broadcast message communicating multicast information for a plurality of cells comprising the first cell of a first access type, a neighboring horizontal cell of the first access type, and a vertical cell of a second access type, wherein said multicast information includes session information including a multicast IP address for a multicast session, mapping information indicating in which cells the multicast session may be received, topology information mapping logical cells to physical cells, and link-level access parameters usable by the apparatus to connect to the multicast session;

tuning to the multicast session in the first cell using the received multicast information; and

when a predetermined condition occurs, tuning to the multicast session in one of the horizontal neighboring cell and the vertical cell using the received multicast information.

13. (Previously Presented) The apparatus of claim 12, wherein the multicast information comprises a session identifier.

14. (Previously Presented) The apparatus of claim 12, wherein the multicast information comprises a frequency.

15. (Previously Presented) The apparatus of claim 12, wherein the multicast information comprises a session title.

16. (Previously Presented) The apparatus of claim 12, wherein each tuning comprises receiving a digital video broadcast terrestrial (DVB-T) multicast session.

17. (Previously Presented) The apparatus of claim 12, wherein each tuning comprises receiving a UMTS multicast session.

18. (Previously Presented) The apparatus of claim 12, wherein each tuning comprises using the link-level access parameters to tune to the multicast session in each cell.

19. (Previously Presented) The apparatus of claim 12, wherein the computer readable instructions, when executed by the processor, further cause the apparatus to perform joining an IP multicast group in the first cell.

20. (Previously Presented) The apparatus of claim 12, wherein the computer readable instructions, when executed by the processor, further cause the apparatus to perform periodically receiving multicast session announcements including the multicast information while tuned to the multicast session in the first cell.

21. (Previously Presented) The apparatus of claim 12, wherein the predetermined condition comprises a signal strength fading.

22. (Previously Presented) The apparatus of claim 12, wherein the predetermined condition comprises receiving predetermined user input.

23. (Previously Presented) A computer readable medium storing computer readable instructions that, when executed, cause a data processing device to perform:

in a first cell, receiving from a base station corresponding to the first cell, a broadcast message communicating multicast session information for a plurality of cells comprising the first cell of a first access type, a neighboring horizontal cell of the first access type, and a vertical cell of a second access type, wherein said multicast information includes session information including a multicast IP address for a multicast session, mapping information indicating in which cells the multicast session may be received, topology information mapping logical cells to physical cells, and link-level access parameters usable by the data processing device to connect to the multicast session;

tuning to the multicast session in the first cell using the received multicast information; and

when a predetermined condition occurs, tuning to the multicast session in one of the horizontal neighboring cell and the vertical cell using the received multicast session information.

24. (Previously Presented) The computer readable medium of claim 23, wherein the multicast information comprises a session identifier.

25. (Previously Presented) The computer readable medium of claim 23, wherein the multicast information comprises a frequency.

26. (Previously Presented) The computer readable medium of claim 23, wherein the multicast information comprises a session title.

27. (Previously Presented) The computer readable medium of claim 23, wherein each tuning comprises receiving a digital video broadcast terrestrial (DVB-T) multicast session.

28. (Previously Presented) The computer readable medium of claim 23, wherein each tuning comprises receiving a UMTS multicast session.

29. (Previously Presented) The computer readable medium of claim 23, wherein each tuning comprises using the link-level access parameters to tune to the multicast session in each cell.

30. (Previously Presented) The computer readable medium of claim 23, wherein the computer readable instructions, when executed by the processor, further cause the data processing device to perform joining an IP multicast group in the first cell.

31. (Previously Presented) The computer readable medium of claim 23, wherein the computer readable instructions, when executed by the processor, further cause the data processing device to perform periodically receiving multicast session announcements including the multicast information while tuned to the multicast session in the first cell.

32. (Previously Presented) The computer readable medium of claim 23, wherein the predetermined condition comprises a signal strength fading.

33. (Previously Presented) The computer readable medium of claim 23, wherein the predetermined condition comprises receiving predetermined user input.

34. (Previously Presented) A method, comprising:

tuning to a logical announcement channel;

receiving a session announcement corresponding to a multicast session, the session announcement comprising information that maps link-level access parameters in each of a plurality of cells to the multicast session, wherein said session announcement includes a session identifier, session information including metadata regarding the multicast session, and session cell mapping information indicating those cells in which the multicast session with the specified session identifier is available;

receiving the multicast session in a first cell of the plurality of cells using the first cell's received link-level access parameters; and

when reception of the multicast session in the first cell changes from a first signal strength, receiving the multicast session in a second cell of the plurality of cells using the second cell's link-level access parameters contained in the session announcement.

35. (Previously Presented) The method of claim 34, wherein receiving the multicast session in the first cell and receiving the multicast session in the second cell each comprise tuning to a digital video broadcast terrestrial (DVB-T) multicast session.

36. (Previously Presented) The method of claim 34, wherein receiving the multicast session in the first cell and receiving the multicast session in the second cell each comprise tuning to a UMTS multicast session.

37. (Previously Presented) An apparatus, comprising:

a processor; and

memory for storing computer readable instructions that, when executed, cause the apparatus to perform:

wirelessly receiving from a base station corresponding to a first cell, a broadcast message communicating multicast information for the first cell of a first access type, a neighboring horizontal cell of the first access type, and a vertical cell of a second access type, wherein said multicast information includes session information including a multicast IP address for a multicast session, mapping information indicating in which cells the multicast session may be received, topology information mapping logical cells to physical cells, and link-level access parameters usable by the apparatus to connect to the multicast session;

wirelessly tuning to the multicast session broadcast by the base station corresponding to the first cell using the received multicast information for the first cell; and

when a predetermined condition occurs, wirelessly tuning to a corresponding multicast session broadcast by a base station corresponding to the

horizontal neighboring cell using the received multicast information for the horizontal neighboring cell.

38. (Previously Presented) The apparatus of claim 37, wherein each multicast information comprises a session identifier.

39. (Previously Presented) The apparatus of claim 37, wherein each multicast information comprises a frequency.

40. (Previously Presented) The apparatus of claim 37, wherein each multicast information comprises a session title.

41. (Previously Presented) The apparatus of claim 37, wherein each tuning comprises wirelessly receiving a digital video broadcast terrestrial (DVB-T) multicast session.

42. (Previously Presented) The apparatus of claim 37, wherein each tuning comprises wirelessly receiving a UMTS multicast session.

43. (Previously Presented) The apparatus of claim 37,
wherein each tuning comprises using the link-level access parameters to tune to the multicast session in each respective cell.

44. (Currently Amended) The apparatus of claim 37, wherein the computer readable instructions, when executed by the processor, further cause the apparatus to perform periodically receiving multicast session announcements including the multicast information while tuned to the multicast session in the first cell.

45. (Previously Presented) The apparatus of claim 37, wherein the predetermined condition comprises a fading of the signal strength of the first cell.

46. (Previously Presented) The apparatus of claim 37, wherein the predetermined condition comprises receiving predetermined user input.

47. (Currently Amended) A method, comprising:

prior to determining that a handoff from a first cell to a different cell should be made for a mobile terminal located in the first cell, transmitting from a base station corresponding to the first cell, a broadcast message communicating multicast information for a plurality of cells comprising the first cell of a first access type, a neighboring horizontal cell of the first access type, and a vertical cell of a second access type, wherein said multicast information includes session information including a multicast IP address for a multicast session, mapping information indicating in which cells the multicast session may be received, topology information mapping logical cells to physical cells, and link-level access parameters usable by the mobile terminal to connect to the multicast session

receiving, by the mobile terminal in the first cell, the broadcast message communicating the multicast information;

tuning the mobile terminal to receive to the multicast session in the first cell using the received multicast information; and

when a predetermined condition occurs, tuning the mobile terminal to receive the multicast session in one of the horizontal neighboring cell and the vertical cell using the received multicast information.

48. (Previously Presented) An apparatus, comprising:

a processor; and

memory for storing computer readable instructions that, when executed, cause the apparatus to:

tune to a logical announcement channel;

receive a session announcement corresponding to a multicast session, the session announcement comprising information that maps link-level access parameters in each of a plurality of cells to the multicast session, wherein said

session announcement includes a session identifier, session information including metadata regarding the multicast session, and session cell mapping information indicating those cells in which the multicast session with the specified session identifier is available;

receive the multicast session in a first cell of the plurality of cells using the first cell's received link-level access parameters; and

when reception of the multicast session in the first cell changes from a first signal strength, receive the multicast session in a second cell of the plurality of cells using the second cell's link-level access parameters contained in the session announcement.

49. (Previously Presented) The apparatus of claim 48, wherein receiving the multicast session in the first cell and receiving the multicast session in the second cell each comprise tuning to a digital video broadcast terrestrial (DVB-T) multicast session.

50. (Previously Presented) The apparatus of claim 48, wherein receiving the multicast session in the first cell and receiving the multicast session in the second cell each comprise tuning to a UMTS multicast session.